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I claim: (CURPENTLY AMENDED)

1. An apparatus for converting the energy of a live load

on fluid reservoirs on land, in the air and in ocean going vehicles comprising:

- 5, a. a force collection means comprising a reservoir of working fluid wherein said working fluid is operatedly connected to a live load,
- b. an energy conversion means operatedly connected to said force collection means and comprising a Bourdon tube, an electric gen
 [Gerator and a gear transmission means for transmitting motion of said Bourdon tube to operate said generator.
- 2. The apparatus of claim 1 wherein said energy conversion means comprises a C-type Bourdon tube whose inlet end is fixedly attached to a fixed support upon which is mounted a first shaft and a 15 first spur gear and whose other end is affixed to a moveable cylinder located as part of a Scotch Yoke affixed to said first spur gearin a radial direction, said Bourdon tube and said Scotch Yoke located in a chamber filled with working fluid with an inlet opening, said chamber's dimensions partly defined by 24 said first spur gear face to which said Scotch Yoke is attached through a rotateable seal so as said spur gear is made to rotate said chamber does not rotate, a second spur gear mounted on a second shaft, said second gear made to mesh with said first gear and having mounted on it concentrically a ratchet and pawl in a

shaft, a fourth spur gear made to mesh with said first gear and

名first direction and a third spur gear mounted on said second

mounted on it concentrically a ratchet and pawl in an opposite direction to said first direction, said fourth spur gear mounted on a third shaft, a fifth spur gear mounted on said third shaft and made to mesh with said third spur gear so as said Bourdon tube 5; is made to change shape said third shaft will be made to rotate in a single direction, said third shaft made to drive an electric generator. (GRIGINAL)

3 The apparatus of claim 1 wherein said live load; vehicle and said reservoir is beneath a road surface with a steel 10 channel whose legs are in contact with said reservoir's top surface with the other end of said leg in contact with the underside of said asphaltand wherein said chamber of claim 2 is excluded from said energy conversion means so as a said vehicle is made to move over said channel the pressure on working fluid within said 15 reservoir is made to vary and drive said electric generator. 4. The apparatus of claim 3 wherein said | live load 🚧 is a walking human being, said road surface is a rug on top of a plywood floor with suitable blocking between said plywood floor and subflooring located beneath said reservoir as a support for 29 said reservoir so as said human being walks over said channel and presses down on said channel the pressure on working fluid within said reservoir is made to vary and drive said generator. (ORIGINAL) 5. The apparatus of claim 1 wherein said force collection means further comprises:

25,a. a piston sleeve closed on both sides defining the walls of a reservoir of working fluid,

- b. a piston within said sleave drviding said sleeve into two compartments,
- c.a piston shaft fixedly attached to said piston and extending through an end wall of said sleeve,
- 5, d. O-rings between said shaft and said wall and between said piston and said sleeve to prevent leakage of working fluid.
 - e. water completely filling both said compartments and serving as working fluid,
- f. check valves through the walls of each said compartment

 14 to allow each said compartment to be filled with water, and

 g.two exit tubes from each compartment

 so as said piston shaft is made to push on and pull on said piston

water pressure in each said compartment and said exit tube

is raised and lowered accordingly.

The apparatus of claim 1 wherein said force collection means comprises a flexible pole extended vertically from the ground with a revolveable sail affixed atop said pole the bottom of said pole extending below ground and attached to said piston shaft of claim said pole pivoted at ground level so as wind presses against cosaid sail said water pressure in said exit tube is made to vary accordingly and drive said electrical generator.

7. The apparatus of claim 6 wherein said force collection means comprises said ** #1exible pole affixed to a tree trunk and said sail comprises branches and leaves of said tree so as wind presses

25, against said branches and leaves said water pressure in said exit tube of claim 5 is made to vary accordingly and drive said electrical generator.

(CURPENTLY AMENDED) of claim 6 wherein said force collection means comprises said flexible pole located through the vertical axis of a tall building, said pole being attached to the roof of said building so as wind pressure causes said building to sway 5, said water pressure in said exit tube of claim 5 is made to vary accordingly and drive said electric generator. (CURRENTLY AMENDED) 9. The apparatus of claim 6 wherein said force collection means comprises a Elexible pole extended vertically from the hull of a sailboat as a mast and wherein said machinery of claim 5 iqis operatedly attached to running and standing rigging extended from said hull of said sailboat so as wind presses on a sail <u>_attached_to_said_mast_then_said_water_pressure_in_said_exit</u> tube of claim 5 is made to vary accordingly and drive said electrical generator.

**Sion The apparatus of claim 6 wherein said force collection means comprises a flexible pole extending rearward of the end of a vehicle section selected from an aircraft wingtip, ship, hull and jet engine, the root of said pole extended to within said vehicle section and attached to said piston shaft, said pole pivoted at **Zqthe surface of said vehicle section so as live load **†d drag causes said pole to flutter said water pressure in said exit tube of claim 5 is made to vary accordingly and drive said generator.

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(ORIGINAL) 12. $_{\Lambda}$ The apparatus of claim 1 wherein said force collection means comprises a container of weight in a vehicle moveably fixed to said vehicle, said container being double walled and with the force collection means of claim 5 located between said walls, said piston 5,shaft containing a ball bearing located on said shaft's distal end and restng on the outside of the inner wall of said double wall so as said weight in said vehicle is made to move said electrical generator will be driven, producing electrical energy. (ORIGINAL) wherein said force collection means 13. The apparatus of claim 11 Accomprises a cable stretched along the top of a keel of a ship and wherein a first section of said cable is fixedly attached to the stern end of said keel and said piston shaft and the other section of said cable is fixedly attached to the bow end of said keel and said piston sleeve so as said cable is stretched 15 by hogging of said keel said water pressure in said exit tube is made to vary accordingly and driving said generator. 14. The apparatus of claim 13 wherein said cable is stretched diagonally across said ship's frame so as said ship's hull is racked/as said hull is made to roll said water pressure in said zqexit tube is made to vary accordingly and drive said electrical generator. (ORIGINAL) 15. The apparatus of claim 5 wherein said piston sleeve is

15. The apparatus of claim 5 wherein said piston sleeve is fixedly attached to a shock absorber of a first railway car and said piston shaft is fixedly attached to a shock absorber of 25, a succeeding railway car so as each railway car is moved at a different velocity by inertia said water pressure in said exit tube is made to vary accordingly and drive said generator.

(CANCELED) 16. The apparatus of claim 1 wherein said force collection means further comprises an inflated vehicle tire mounted on a wheel and axle. said axle having a hole through its concentric axis through which are located two tubes with rotateable seals mount 5ed so the end section of each tube may be rotated while the connected and may not be rotated, a first tube being made to emerge from the end of said axle and terminate with said first tube open end near the rim of said wheel within the air tube made to emerge from the ment of said tire and 1q end of said axle and made to terminate with said second tube's open end near the underside of the tread of said tire within the air compartment of said tire said open end faced in the same direction said tire is made to spin by forward motion of said vehicle, said first tube also made to terminate in said inlet 15, opening of said chamber of claim 2 and said second terminate in the inlet opening of said Bourdon tube of claim said tubes being each divided into a first -section located concen

zo, to said first section by a sealed rotateable joint so said second section may be rotated with said axle as said is not rotated, said second tube section terminating within a sealed thrust bearing encircling a tire wheel fixedly attached to said axle, and a third section of said first tube attached to the outer

trically within an axle of a vehicle with tires,

sections of said tube, said third section connected to a weight to as said three is made to spin said third section will remain in a downward position due to said weight so pressure will be schanged accordingly in all three sections,

said wheel having mounted on it ridges normal to said tire's direction of rotation and within said tire's air compartment so as said tire is spun air in said compartment is made to accelerate more rapidly, and as said tire is made to spin a pressure indifference is made between the interior of said Bourdon tube and the interior of said chamber, the changeing velocity of said spinning causing said electric generator to be driven.

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TIL The apparatus of claim 1 wherein said force collection means

15a. a hollow dome,

comprises:

- b. a hollow shaped object selected from the group of (1.)dome and (2.) cone,
- c. said hollow dome and said hollow shaped object fixedly attached to each other along their respective rims, said rims being spaced
 24apart and connected intermittently by suitable means,
 - d. a hole in the center of said hollow dome, oriented so said hole is parallel with the earth's surface,
- e.a cone shaped object located near said hole and within said anterior dome and operable attached to said piston shaft of 25 claim 2.

so as fluid is made to enter said hole said fluid will press on said cone and activate the invention, driving said electrical generator.

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